



**Material Safety Data Sheet**  
**Acetic acid, glacial**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Acetic acid, glacial

**Catalog Numbers:**

LC10100

**Synonyms:**

**Company Identification:**

LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent
64-19-7	Acetic acid	100

**Section 3 - Hazards Identification**

**Emergency Overview**

**Appearance:** Colorless

**Caution!** May cause respiratory tract irritation. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea. Flash Point: 104°F.

**Target Organs:** None known.

**Potential Health Effects**

**Eye:**

Eye contact may result in swelling irritation, damage to the cornea and conjunctiva resulting in blurred or partial loss of vision.

**Skin:**

Skin contact may result in irritation, pain, burns, blisters, and brown or yellow stains.

**Ingestion:**

Ingestion may result in severe burns of the mouth, throat, and stomach; vomiting and diarrhea of dark blood. Asphyxia from throat swelling can occur, perforations of the esophagus and stomach can occur.



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**Inhalation:**

50ppm causes irritation to most individuals. Respiratory irritation, coughing, choking, headache, dizziness, weakness can occur. Delayed symptoms include lung fluid, chest pains, frothy sputum, cyanosis, rales and hypotension.

**Chronic:**

May cause dermatitis and conjunctivitis. Dental erosion, tooth discolorization, jaw necrosis, nasal ulceration, laryngitis, bronchitis, pneumonia and gastrointestinal disturbances can occur.

### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Cover burns with loose sterile non-medicated bandages.

**Skin:**

Get medical aid at once. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

**Ingestion:**

Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE. Give conscious victim large quantities of water to dilute acid.

**Inhalation:**

Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary. Maintain airway, give oxygen (medical trained only), maintain blood pressure.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

Move container if possible, cool with flooding amounts of water. Avoid breathing corrosive vapors, knock down with water spray. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Flammability class (OSHA): II

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

867°F ( 463.89°C)

**Flash Point:**

104°F ( 40.00°C)

**NFPA Rating:**

CAS# 64-19-7 health-3; flammability-2; reactivity-0

**Explosion Limits:**

Lower: 5.4 Upper: 16



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### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spill with an alkaline material such as soda ash or lime. Place in labeled plastic containers for disposal, wash area down with water. Absorb liquid with inert or neutralizing substance such as fuller's earth, cement powder, fly ash, sand.

### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Use only in a well ventilated area. Avoid prolonged or repeated contact with skin.

**Storage:**

Store in cool, dry area away from heat and oxidizers.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Acetic acid	10 ppm TWA; 15 ppm STEL	10 ppm TWA; 25 mg/m <sup>3</sup> TWA	10 ppm TWA; 25 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:**

Acetic acid: 10 ppm TWA; 25 mg/m<sup>3</sup> TWA

**Personal Protective Equipment****Eyes:**

Wear safety glasses and chemical goggles or face shield if handling liquids. Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when working with chemicals.

**Skin:**

Wear acid protective clothing and gloves.

**Clothing:**

Wear acid protective clothing and gloves.

**Respirators:**

>100ppm- SCBAF:PD,PP; SAF:PD,PP,CF.

500ppm- CCROVF/GMOV/SAF/SCBAF.

1000ppm- SAF:PD,PP,CF. Escape-

GMOV/SCBA. Firefighting- SCBAF:PD,PP.

### Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Colorless



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<b>Odor:</b>	Pungent vinegar-like odor
<b>pH:</b>	Acidic
<b>Vapor Pressure:</b>	11 mm Hg @20°C
<b>Vapor Density:</b>	2.1
<b>Evaporation Rate:</b>	0.97 (BuOAc=1)
<b>Viscosity:</b>	No information found.
<b>Boiling Point:</b>	244°F ( 117.78°C)
<b>Freezing/Melting Point:</b>	62°F ( 16.67°C)
<b>Decomposition Temperature:</b>	No information found.
<b>Solubility in water:</b>	Miscible.
<b>Specific Gravity/Density:</b>	1.04
<b>Molecular Formula:</b>	CH <sub>3</sub> COOH
<b>Molecular Weight:</b>	60.0268

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Metals, oxidizers.

**Incompatibilities with Other Materials:**

Chromic acid, chromic anhydride, nitric acid, perchloric acid, permanganates, sodium peroxide, potassium hydroxide, hydrogen peroxides, acid anhydrides.

**Hazardous Decomposition Products:**

Oxides of carbon.

**Hazardous Polymerization:**

Has not been reported

### Section 11 - Toxicological Information

**RTECS:**

CAS# 64-19-7: AF1225000.

**LD50/LC50:**

CAS# 64-19-7:

Inhalation, mouse: LC50 =5620 ppm/1H

Oral, rat: LD50 = 3310 mg/kg

Skin, rabbit: LD50 = 1060 mg/kg.

**Carcinogenicity:**

CAS# 64-19-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

Severe eye, mucous membrane and skin irritant, skin sensitizer.

**Teratogenicity:****Reproductive:****Mutagenicity:****Neurotoxicity:**



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**Section 12 - Ecological Information**

No information found.

**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Acetic acid, solution  
**Hazard Class:** 8  
**UN Number:** UN2789  
**Packing Group:** PG II

**Section 15 - Regulatory Information**

**US Federal**

**TSCA:**

CAS# 64-19-7 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ):**

CAS# 64-19-7: final RQ = 5000 pounds (2270 kg)

**CERCLA/SARA Section 313:**

None of the components are on this list.

**OSHA - Highly Hazardous:**

None of the components are on this list.

**US State**

**State Right to Know:**

Acetic acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

**California Regulations:**

**European/International Regulations**

**Canadian DSL/NDSL:**

CAS# 64-19-7 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List:**

CAS# 64-19-7 is listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: July 6, 1998

Revision Date: May 22, 2007



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